



Re:source

**Communication
Module**

***SAT* Version**

Dominating Entertainment.
Revox of Switzerland.

Please note: Software update!

Unlike the software for the Standard communication module, the SAT control software is **premium-priced** and therefore **copy protected**.

Under no circumstances should you load any other software than the SAT version when carrying out an update. If a different software is loaded, the SAT software is then blocked and has to be reloaded at the Revox Head Office in Villingen, Germany.

Communicate Module	3
Installation	4
Connection panel	5
Cabling & Setup	6
Analogue inputs IN1 – IN3	6
Cabling	6
Setup: Edit Name	7-9
Setup: Level	10
SAT Input	11
Cabling	11
Setup: TV Lock	12
Setup: Default	13
Setup: Configuring the digital input	13-14
Setup: Aux-1, Aux-2, Aux-3	14
General operation	15
SAT menu	15
Changing channel	16
List selection	16
Multiroom operation	17
Configuration	17
Display menu	17
Changing channel	18
Display channel list	18
Technical data	19
Guarantee	19

Communicate Module

The Communicate module is a universal audio interface with a serial communication port.

The Communicate module with the SAT software is described in this manual.

This software supports the **PVR** Series of Receivers from the **Topfield** company, that are receivers with integrated hard disk. The receiver type can equally well be a satellite (**S**) or a cable (**C**) receiver as well as a terrestrial receiver (**T**).

- TF 5000 PVR (S)
- TF 5000 PVR Masterpiece (S)
- TF 5500 PVR (S)
- TF 6000 PVR (S; WLAN)
- TF 6000 PVRE (S; Ethernet LAN)
- TF 5000 PVRt (T)
- TF 5200 PVR (C)

A basic pre-requirement is that the Topfield receiver is equipped with the special **display.tap** software from Revox and that this is installed in the *Program Files / Auto Start* folder.

The display.tap file and the corresponding installing manual can be found at www.revox.com

If the Topfield receiver is integrated into the Revox world through the Communicate module, the receiver basic functions can be carried out at the M51 and from every Additional room. Additionally, the corresponding displays show the names of the TV and radio channels as well as an overview list.

A further feature are the 3 additional analogue inputs available in the SAT version of the Communicate module.

Installation

The Communication plug-in card is equipped with the latest in electronics and should be handled with care.

Before you install the card, the M51/ M10 must be switched off and separated from the power supply, by plugging the unit out.

M51 Installation

The Communication module can be operated in slots 1 – 6. The only exception is Slot 7, next to the speaker connections, as this is reserved for the 5.1 Decoder module.

M10 Installation

The Communication module can be operated in slots 1 – 8. Slots A1 and A2 may only be populated with second generation modules whose hardware has been developed since 2008. These can be identified by the following symbol on the back wall of the module: 

Loosen the two screws with a TORX screwdriver (T10) and remove the blanking plate. A suitable TORX screwdriver is supplied with the Re:system M51 and M10.

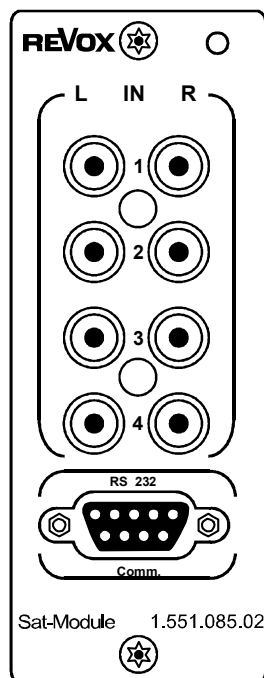
Before removing the Communication module from its packaging, you should make sure that you do not have any static electricity. This could cause a damaging discharge of voltage when you touch the module. You should get rid of any static charge by touching an earthed metal object like a radiator, for example.

Remove the Communication module from its packaging and feed it into its plug-in position. The two bars inside the M51/ M10 are the mechanical guides for you to use.

The lettering on the Communication plug-in card must be on top. Shortly before the plug-in card is fully locked into position in its slot, you will feel a mechanical resistance, caused by the contact strip. Push the Communication module in by applying pressure in the area of the two screw holes and fix the card in place with both screws.

All further steps for the internal registering of the new module are carried out automatically the next time it is switched on.

Connection panel



RS232 connection

The **RS232** communication interface is connected to the RS232 interface on the Topfield receiver with a 9-pin Sub-D cable (1:1 connection; plug – socket). More details on this are to be found in the chapter *Cabling*.

Audio connections

The Communicate module has 4 independent audio inputs:

- IN 1** for **Aux-1**
- IN 2** for **Aux-2**
- IN 3** for **Aux-3**
- IN 4** for **SAT**

Devices such as external tuners, CD players, MiniDisc players or cassette decks (Play) can be connected to the analogue line inputs **IN1** to **IN3**.

A special feature of these three inputs is that they can each have different level settings and name assignment.

The input **IN4** is used to connect to the audio output from the Topfield receiver.

You will find information about the corresponding cabling in the next chapter.

① Module name / number

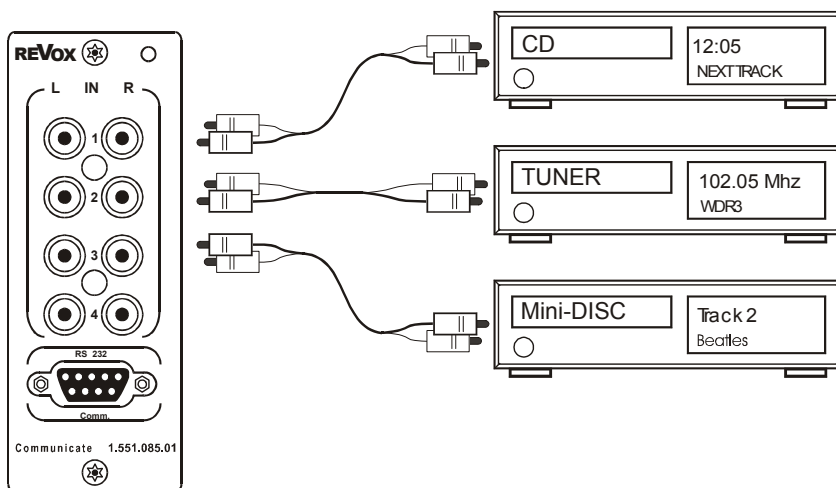
From January 2009, all **SAT Communication Modules** will be supplied with a new back wall label. This now carries the label **SAT Module** and has the part number: **1.551.085.02**.

The SAT software can be updated on both module versions because the hardware is the same.

Cabling & Setup

Analogue inputs IN1 IN2 IN3

Connect the three analogue inputs IN1 – IN3 using a cinch stereo cable with your external device. The inputs are shown in the M51 display as Aux-1 – Aux-3.



The Communicate module inputs are not suitable for connecting a record deck. In this case, you should use the I/O module, which supports both MM and MC sound systems. Both modules, the Communicate and the I/O module, can be used together in the M51.

Setup IN1 IN2 IN3

Edit source name

▶ Edit Name

The display names of the three inputs IN1 – IN3 can be freely defined. You no longer have to remember which external device is connected to which input. You can simply give each input a name that makes the assignment obvious.

Select the input from the **SOURCE** menu whose name you want to edit.

This is possible with:

Aux-1, Aux-2, Aux-3

The edit function is called by pressing the **Setup** key for about 2 seconds and then selecting the softkey **Source**.

The following display appears:



By selecting the softkey **Edit Name**, you will get to the source name edit function.
(see next chapter)

Edit function

▶ Edit Name

By selecting the **Edit Name** softkey, you get to the menu shown below.



The **Cursor** softkey moves the [] cursor left and right.

The **Delete** softkey deletes a character where the [] cursor is positioned.

The **Insert** softkey inserts a character to the left of the [] cursor.

The **Store** softkey saves the currently display name and returns you to the Setup menu.

The **Cancel** softkey leads back to the **Source** Main menu without saving any changes made.

Note

Whenever you can make a setting with the rotary knob in the following chapters, the input range appears in the display in two square brackets [...]. At the same time, the small red **Jog** lamp on the right next to the rotary knob on the M51 lights up.

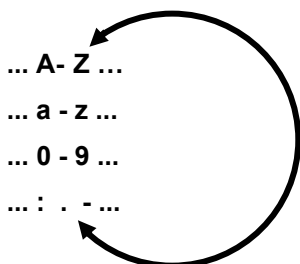
The following symbol additionally draws your attention to it in the manual: ⇒ []

Edit character ⇒ []

The actual modification of the individual characters, the letters and numbers, is done using the rotary knob.

When you turn it, first you go through the alphabet with upper case followed by lowercase letters, followed by numbers from 0 to 9. You can also go through this sequence in reverse.

Character sequence:

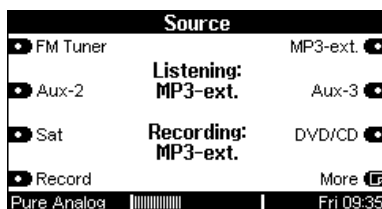


Changing the source name
Aux-1 to another name:



Example:

*In the example shown below, the input **Aux-1** is given the name **MP3-ext**.*



Restore standard name

Edit Name

If you want to restore a modified source name to the standard factory setting name, select these Aux source from the **SOURCE** menu.

This is possible with:
Aux-1, Aux-2, Aux-3

Select the **Edit Name** function in the Setup menu.

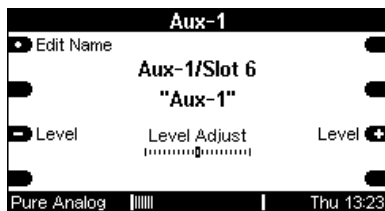
The standard name can be restored by deleting the modified name completely using the **Delete** key as shown in the display below.



When you save using the **Store** softkey, the factory setting is restored.

This takes you back to the **Setup** Menu.

The standard name is now restored as shown in our example with **Aux-1**.



Level adjustment

▢ Level

Level +

The Communicate module offers the option from the professional studio world of being able to adjust the individual inputs in relation to each other. In this way, for example, a quieter CD player can be set to a higher level so that there is no need to adjust volume levels when you switch between sources.

You should proceed as follows for this function.

Select the Aux source from the **SOURCE** menu whose level you want to adjust. This is possible with: **Aux-1**, **Aux-2**, **Aux-3**

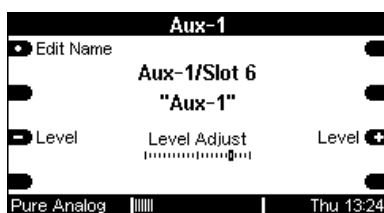
This function is called by pressing the **Setup** key for about 2 seconds and then selecting the softkey **Source**.

The following menu appears with the **Level Offset** display in the middle.



If you want to raise or lower the level of this source, press the softkeys **-Level** or **Level+** respectively. In this way, the level can be changed by ± 10 dB.

The modification can be heard during the input. The reproduction will get louder or softer correspondingly.



If the settings are correct, there shouldn't be any more volume difference between the adjusted analogue sources and, for example, the **M51** tuner.

If this is not the case, carry out the level adjustment again. Once the levels meet your requirements, you can leave the **Level** function with the **Source** or the **Amplifier** key.

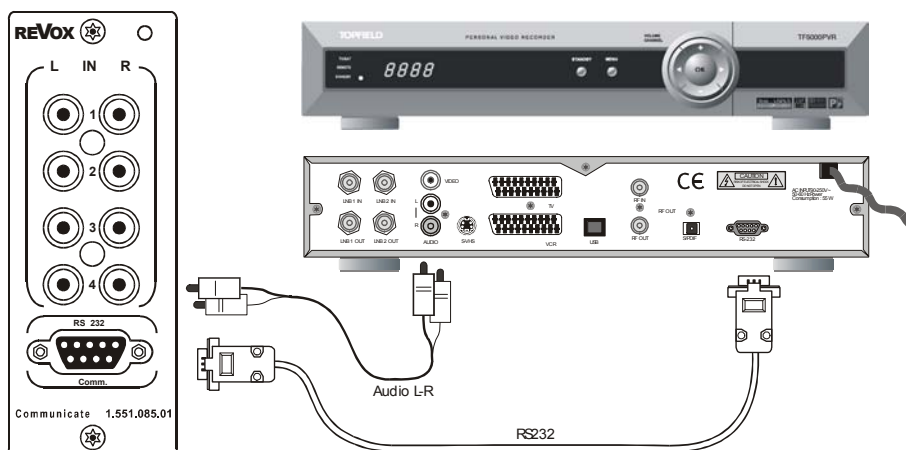
SAT input IN 4 + RS232

Two connections have to be made between the Topfield receiver and the Communicate module.

- 1.) Audio connection input **IN 4** (Communicate module) with the audio output **L-R** (Receiver) using a stereo cinch cable.
- 2.) **RS232** control connection with a serial 1:1 cable (plug – socket).

Cabling has to be done as shown in the diagram below. Depending on the receiver type, the connections can be in different positions on the back of the device.

The cable length between the Communicate module and the receiver should not be more than 10 metres as otherwise you can expect to experience disturbances and reduced audio quality.



All other connections between the receiver and the SAT system and/or the image producing device are made according to individual needs and system features.

You will find the corresponding documentation in the Receiver Operating manual from Topfield.

- ❶ The receiver must be switched on permanently so that the Communicate module can access it all times.

SAT Setup

The basic settings for the Communicate module are made in Setup.

Select the source SAT from the **Source** menu and press and hold the **Setup** key for approx. 2 seconds. Then select the **Source** softkey. The following display appears:

Sat			
	TV Lock	- SAT Setup -	Default
	TV Lock	On	
	Default	Off	
	- Aux Inputs -		
	Aux-1	On	Aux-2
	Aux-2	On	
	Aux-3	On	
Pure Analog		Tue 16:35	

TV channel lock

 TV Lock

There is the locking function **TV Lock** for use in Multiroom operation.

With this function, you can secure a TV program that is running in the Main room against being changed from one of the Additional rooms. If **TV Lock** is activated, i.e. **On**, the TV channel can only changed from the Main room. People in the Additional room can only select the source, not change it.

Exception

If another source is used in the Main room or if the Main room is in standby.

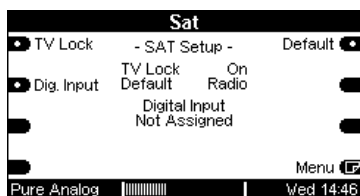
If the function is deactivated, i.e. **Off**, anybody can change the TV channels, whether from the Main room or from an Additional room.

You can toggle between **On** and **Off** by repeatedly pressing the **TV Lock** softkey.

Default reproduction

Default 

With the Topfield receiver, you can receive radio programs as well as TV programs. Using the **Default** function, you can now choose between 3 options as to which (SAT) source – TV or radio – will be taken to start with, when you choose SAT from the Source menu.



Default: Off

The source will be selected, which was being used before power-off or before switching sources.

Default: Radio

Irrespective of which (SAT) source you last selected, **Radio** will always be selected as the source when you select SAT.

Default: TV

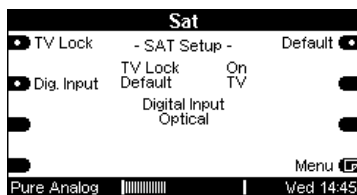
Irrespective of which (SAT) source you last selected, **TV** will always be selected as the source when you select SAT.

You change the setting by repeatedly pressing the Default softkey.

Configuring the digital input

 Dig. Input

When installing the SAT module in an M51, you have the option to use the digital audio signal from the Topfield receiver in the main room. In this case, the Topfield receiver digital output is connected to the digital input on the 5.1 decoder module.



Digital input: Optical (at the 5.1-Decoder)

This has the advantage that digital multi-channel formats such as Dolby or DTS, significantly improve the reproduction quality with the Home cinema. A pre-requirement of course is that the television channel also transmits the programmes in the multi-channel format. Otherwise, only stereo reproduction is available.

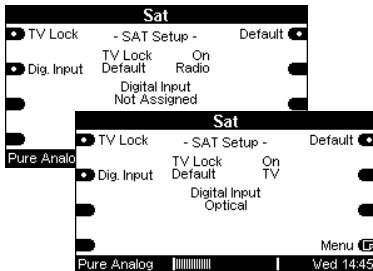
The additional rooms continue to be supplied with the analogue audio signal through the IN4 input.

If the SAT module is installed in an M10, the configuration of the digital input is blocked, as the M10 doesn't have a 5.1 decoder module.

Configuring the digital input

► Dig. Input

You can now select whether and which of the 5.1 decoder digital inputs should receive the digital signal, using the **Dig. Input** function.



Dig.Input: Not Assigned

No digital input is used. Audio reproduction for the main room is done using the analogue input **IN4**, in the same way as with the additional rooms.

Dig.Input: Optical

Audio reproduction for the main room is done using the 5.1 decoder module **Optical** input.

Dig.Input: Coaxial (1/2)

Audio reproduction for the main room is done using the 5.1 decoder module **Coaxial** input.



The 5.1 decoder module MK3 has 2 coaxial inputs, **Coaxial 1** and **Coaxial 2**.

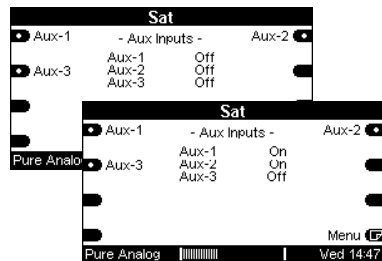
Suppressing analogue inputs

► Aux-1 Aux-2 Aux-3

The Communicate module offers you the option of suppressing the analogue sources **Aux-1**, **Aux-2** and **Aux-3** as required.

The suppressed source(s) no longer appear in the **M51** Source menu and are no longer available on the remote control.

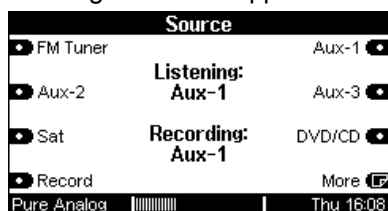
By repeated pressing of the **Aux-1/Aux-2/Aux-3** softkeys, the corresponding analogue sources can be suppressed and released.



General operation

The Communicate module's inputs **Aux-1**, **Aux-2** and **Aux-3** are automatically displayed with the installed SAT software.

The individual inputs are called through the Source menu. Press the **Source** button on the **M51** when it is switched on. The following menu field appears:



The corresponding analogue source is selected by pressing the **Aux-1**, **Aux-2** or **Aux-3** softkeys.

You start the SAT menu with the **SAT** softkey.

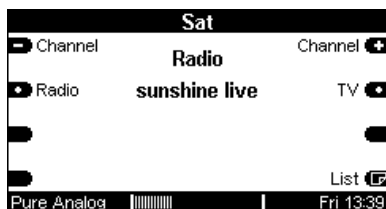
If the required source is not shown on the first **SOURCE** page, simply scroll to the next page with the **More** softkey.



The receiver must be switched on permanently so that the Communicate module can access it at all times.

SAT menu

After you have selected the SAT source, the TV or Radio menu appears.



The decision as to whether TV or Radio is displayed depends on the Setup setting and the last source selection.

The current TV or Radio station name is shown in the middle of the display.

Using the **Radio** or **TV** softkey, you can choose your desired source.



With the Topfield receiver, you can receive radio programs as well as TV programs.

Changing channel

Using the two softkeys **Channel** and **Channel** you can select the previous or next radio or TV channel, respectively.



Display channel list

Using the **List** softkey, the Communicate module gives you the option to display all channels in a list. The channels are displayed in the order they were programmed in.

This list is available for TV and radio.



List selection

Using the softkeys



you can select the previous or next channel in the new list display.

Using the two softkeys



you can call the channels page-by-page.



The currently selected channel is indicated by a small arrow **▶** in front of the channel name.

Once you have found the channel you are looking for, you confirm your selection by pressing the **Select** softkey.

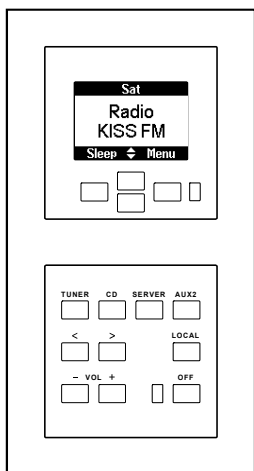
You return to the SAT Main menu with the **Back** softkey.

Multiroom operation

The Revox Multiroom system offers you the unusual comfort of being able to operate the SAT receiver from each Additional room. If the **M217/4217** wall-mounted display is installed, even the TV and radio channel names are displayed.

Multiroom Configuration

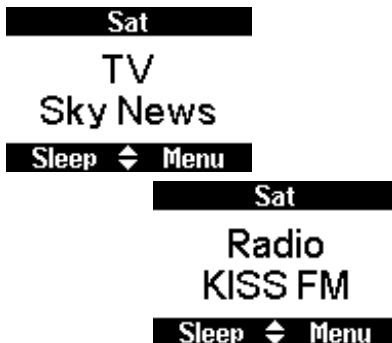
The wall-mounted display shown below is showing the SAT menu. The user can choose which button is used to call the SAT menu. The choice is made between the following source keys on the unit: **TUNER, CD, SERVER, AUX2**.



The key assignment is made through the M51 Remote menu. See Chapter: *M51 Introduction*

Display menu

When the SAT menu has been selected, either the TV or Radio menu appears.



The decision as to whether TV or Radio is displayed depends on the Setup setting and the last source selection.

The current TV or Radio station name is shown in the middle of the display.

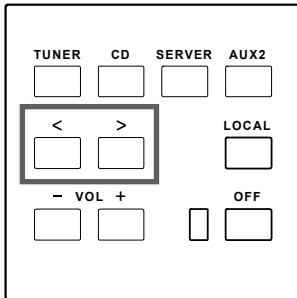
You can switch between *Radio* and *TV* using the **menu** softkey on the wall display. Additionally, as with the M51, the *List* selection is also available to you.



You make your choice using the two softkeys **↕** and confirm it with the **Select** softkey.

Changing channel

Using the two softkeys ◀ ▶ on the wall panel, you can select the previous or next radio or TV channel, respectively.



Display channel list

If you have selected the *List* function in the Display menu, all channel names are shown in a list in blocks of four. The channels are displayed in the order they were programmed in.

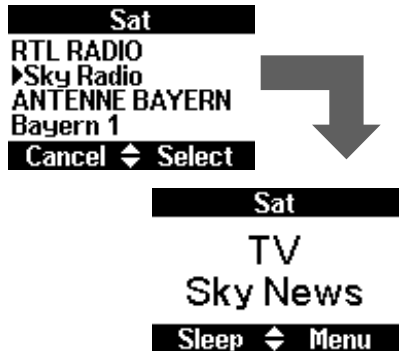


This list is available for TV and radio.

Selecting a channel from the list

Using the two softkeys ⬆, you can select the radio or TV channel from the list and confirm it with the **Select** softkey.

Your selection appears immediately in the Main menu.



Note

If the **TV Lock** function has been selected during the Communicate module setup, any change of TV channel is blocked. In this case, only radio channels can be switched.

Please refer to Page 11/Chapter SAT Setup for more information.

Technical data

Audio connections:

IN1 Cinch Stereo Input
IN2 Cinch Stereo Input
IN3 Cinch Stereo Input
IN4 Cinch Stereo Input
Max. cable length 10 m *

Digitale data connections:

RS 232 SUB D 9-pin 1:1 Cabling

*Dependant on cable environment and quality

Products sujet to change without notice.

Description: Version 2.00

Guarantee

The guarantee period is 24 months. Your dealer should be your first contact if you need service.

Please supply a complete description of the fault together with your address.

If he can't give you the help you need, send the Communicate module carriage free and without any accessories to your national Sales Office.